1   <u>Claims</u>

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3   1.   A method of operating a file server, said method including steps for

4   identifying a first file on said file server with a first security style selected

5   from among a plurality of security styles; and

6   enforcing said first security style for all accesses to said first file.

7

8   2.   A method as in claim 1, wherein said plurality of security styles in-

9   cludes a Windows NT security style.

10

11   3.   A method as in claim 1, wherein said plurality of security styles in-

12   cludes a Unix security style.

13

14   4.   A method as in claim 1, including steps for

15   associating said first file with a subset of files in a file system; and

16   limiting said subset of files to a security subset of said plurality of security

17   styles;

18   wherein attempts to set permissions in said file system tree are restricted to

19   said security subset.

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21   5.   A method as in claim 4, wherein said security subset includes a

22   Windows NT security style.

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2   6.   A method as in claim 4, wherein said security subset includes a Unix

3   security style.

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5   7.   A method as in claim1, including steps for identifying said first file

6   with a second security style in response to a file server request.

7

8   8.   A method as in claim 7, including steps for associating said second

9   security style with a file server request for setting permissions for said first file when said

10   file server request is successful.

11

12   9.   A method as in claim 7, wherein said steps for identifying include

13   steps for translating a first set of permissions associated with said first file in said first se-

14   curity style to a second set of permissions in said second security style, wherein said sec-

15   ond set of permissions is no less restrictive than said first set of permissions.

16

17   10.   A method as in claim 1, wherein said steps for enforcing include

18   steps for

19   recognizing a first set of permissions associated with said first file in said

20   first security style;

21   defining a first user type associated with said first security style;

1   translating a user from a second user type associated with a second security

2   style into said first user type; and

3   enforcing a file server request from said second user type using said first

4   user type and said first set of permissions.

5

6   11.   A method as in claim 10, wherein said steps for translating are per-

7   formed with regard to access control limits applicable to said first file at a time of said

8   steps for enforcing.

9

10   12.   A method as in claim 10, wherein said steps for translating are per-

11   formed with regard to access control limits applicable to said first file at a time said ac-

12   cess control limits are set.

13

14   13.   A method as in claim 1, wherein said steps for enforcing include

15   steps for

16   translating a first set of permissions associated with said first file in said

17   first security style to a second set of permissions in a second security style, wherein said

18   second set of permissions is no less restrictive than said first set of permissions; and

19   enforcing a file server request in said second security style using said sec-

20   ond set of permissions.

21

1   14.   A method as in claim 13, wherein said steps for translating are per-

2 formed with regard to access control limits applicable to said first file at a time of said

3 steps for enforcing.

4

5   15.   A method as in claim 13, wherein said steps for translating are per-

6 formed with regard to access control limits applicable to said first file at a time said ac-

7 cess control limits are set.

8

9   16.   A file server including

10   a set of files available said file server, each said file having an associated

11 security style selected from among a plurality of security styles available on said file

12 server;

13   wherein said file server enforces said associated security style for all ac-

14 cesses to said file.

15

16   17.   A file server as in claim 16, wherein said plurality of security styles

17 includes a Windows NT security style.

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19   18.   A file server as in claim 16, wherein said plurality of security styles

20 includes a Unix security style.

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22   19.   A file server as in claim 16, including

1   a subtree of files in said file system associated with a security subset of said

2   plurality of security styles;

3   wherein said file server restricts attempts to set permissions in said subtree

4   to said security subset.

5

6   20.   A file server as in claim 19, wherein said security subset includes a

7   Windows NT security style.

8

9   21.   A file server as in claim 19, wherein said security subset includes a

10   Unix security style.

11

12   22.   A file server as in claim 16, wherein said file server is capable of al-

13   tering the security style associated with said file in response to a file server request.

14

15   23.   A file server as in claim 22, wherein said file server is capable of al-

16   tering the security style associated with said file in response to a file server request when

17   said file server request is successful.

18

19   24.   A file server as in claim 22, wherein said file server is capable of

20   translating a first set of permissions associated with said file in a first security style to a

21   second set of permissions in a second security style, wherein said second set of permis-

22   sions is no less restrictive than said first set of permissions.

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2   25.   In a file server having a plurality of files, a data structure associating

3 a security style with each said file, said security style being selected from among a plu-

4 rality of security styles available on said file server.

5

6   26.   A data structure as in claim 25, wherein said plurality of security

7 styles includes a Windows NT security style.

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9   27.   A data structure as in claim 25, wherein said plurality of security

10 styles includes a Unix security style.

11

12   28.   In a file server having a plurality of files and a security style associ-

13 ated with each said file, said security style being selected from among a plurality of secu-

14 rity styles available on said file server, a data structure associating a security subset of

15 said plurality of security styles with a subtree of said files available on said file server.

16

17   29.   A data structure as in claim 28, wherein said security subset includes

18 a Windows NT security style.

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20   30.   A data structure as in claim 28, wherein said security subset includes

21 a Unix security style.